



SEQUENCE LISTING

<110> Somers, William S.
Stahl, Mark
Sullivan, Francis X.

<120> CRYSTAL STRUCTURE OF E. COLI GDP-FUCOSE
SYNTHETASE (AND COMPLEXES THEREOF) AND METHODS OF
IDENTIFYING AGONISTS AND ANTAGONISTS USING SAME

<130> 16163-025002

<140> US 10/090,879

<141> 2002-03-04

<150> US 09/373,432

<151> 1999-08-13

<150> US 60/096,452

<151> 08-13-1998

<160> 3

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 338

<212> PRT

<213> Escherichia coli

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Leu	Cys	Asn	Ser	Lys	Arg	Ser	Val	Leu	Pro	Val	Ile	Glu	Arg	Leu	Gly
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Gly	Lys	His	Pro	Thr	Phe	Val	Glu	Gly	Asp	Ile	Arg	Asn	Glu	Ala	Leu
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Ala	Gly	Leu	Lys	Ala	Val	Gly	Glu	Ser	Val	Gln	Lys	Pro	Leu	Glu	Tyr
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Tyr	Asp	Asn	Asn	Val	Asn	Gly	Thr	Leu	Arg	Leu	Ile	Ser	Ala	Met	Arg
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Ala	Ala	Asn	Val	Arg	Asn	Tyr	Ile	Phe	Ser	Ser	Ser	Ala	Thr	Val	Tyr
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Pro	Gln	Ser	Pro	Tyr	Gly	Lys	Ser	Lys	Leu	Met	Val	Glu	Gln	Ile	Leu
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Thr	Asp	Leu	Gln	Lys	Ala	Gln	Pro	Asp	Gln	Ala	Ser	Ile	Ala	Leu	Leu
			165					170					175		
Arg	Tyr	Phe	Asn	Pro	Val	Gly	Ala	His	Pro	Ser	Gly	Asp	Met	Gly	Glu

180					185					190					
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Ala	Val	Gly	Arg	Arg	Asp	Leu	Ala	Ile	Phe	Gly	Asn	Asp	Tyr	Pro	Thr
210					215					220					
Glu	Asp	Gly	Thr	Gly	Val	Arg	Asp	Tyr	Ile	His	Val	Met	Asp	Leu	Ala
225	230					235					240				
Asp	Gly	His	Val	Val	Ala	Met	Glu	Lys	Leu	Ala	Asn	Lys	Pro	Gly	Val
245					250					255					
His	Ile	Tyr	Asn	Leu	Gly	Ala	Gly	Val	Gly	Asn	Ser	Val	Leu	Asp	Val
260					265					270					
Val	Asn	Ala	Phe	Ser	Lys	Ala	Cys	Gly	Lys	Pro	Val	Asn	Tyr	His	Pro
275					280					285					
Ala	Pro	Arg	Arg	Glu	Gly	Asp	Leu	Pro	Ala	Tyr	Trp	Ala	Asp	Ala	Ser
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Lys	Ala	Asp	Arg	Glu	Leu	Asn	Trp	Arg	Val	Thr	Arg	Thr	Leu	Asp	Glu
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Phe	Ala	Ser	Glu	Arg	Ile	Asp	Gln	Val	Tyr	Leu	Ala	Ala	Ala	Lys	Val
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Val	Asn	Lys	Leu	Leu	Phe	Leu	Gly	Ser	Ser	Cys	Ile	Tyr	Pro	Lys	Leu
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His	Val	Ile	Pro	Ala	Leu	Leu	Arg	Arg	Phe	His	Glu	Ala	Thr	Ala	Gln
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	210					215					220				

Ala	His	Glu	Val	Trp	Leu	Glu	Asn	Thr	Gln	Pro	Met	Leu	Ser	His	Ile
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Asn	Val	Gly	Thr	Gly	Val	Asp	Cys	Thr	Ile	Arg	Glu	Leu	Ala	Gln	Thr
				245					250					255	
Ile	Ala	Lys	Val	Val	Gly	Tyr	Lys	Gly	Arg	Val	Val	Phe	Asp	Ala	Ser
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Lys	Pro	Asp	Gly	Thr	Pro	Arg	Lys	Leu	Leu	Asp	Val	Thr	Arg	Leu	His
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Gln	Leu	Gly	Trp	Tyr	His	Glu	Ile	Ser	Leu	Glu	Ala	Gly	Leu	Ala	Ser
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Phe	Val	Ser	Ser	Lys	Asp	Ala	Asp	Leu	Thr	Asp	Thr	Ala	Gln	Thr	Arg
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Ala	Leu	Pro	Glu	Lys	Val	Gln	Pro	Thr	His	Val	Ile	His	Leu	Ala	Ala
	50					55					60				
Met	Val	Gly	Gly	Leu	Phe	Arg	Asn	Ile	Lys	Tyr	Asn	Leu	Asp	Phe	Trp
65					70					75					80
Arg	Lys	Asn	Val	His	Met	Asn	Asp	Asn	Val	Leu	His	Ser	Ala	Phe	Glu
				85					90					95	
Val	Gly	Ala	Lys	Val	Val	Ser	Cys	Leu	Ser	Thr	Cys	Ile	Phe	Pro	Asp
			100					105					110		
Lys	Thr	Thr	Tyr	Pro	Ile	Asp	Glu	Thr	Met	Ile	His	Asn	Gly	Pro	Pro
		115					120					125			
His	Asn	Ser	Asn	Phe	Gly	Tyr	Ser	Tyr	Ala	Lys	Arg	Met	Ile	Asp	Val
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Gln	Asn	Arg	Ala	Tyr	Phe	Gln	Gln	Tyr	Gly	Cys	Thr	Phe	Thr	Ala	Val
145					150					155					160
Ile	Pro	Thr	Asn	Val	Phe	Gly	Pro	His	Asp	Asn	Phe	Asn	Ile	Glu	Asp
			165						170					175	
Gly	His	Val	Leu	Pro	Gly	Leu	Ile	His	Lys	Val	His	Leu	Ala	Lys	Ser
		180						185					190		
Ser	Gly	Ser	Ala	Leu	Thr	Val	Trp	Gly	Thr	Gly	Asn	Arg	Arg	Gln	Phe
		195					200					205			
Ile	Tyr	Ser	Leu	Asp	Leu	Ala	Gln	Leu	Phe	Ile	Trp	Val	Leu	Arg	Glu
	210					215					220				
Tyr	Asn	Glu	Val	Glu	Pro	Ile	Leu	Ser	Val	Gly	Glu	Glu	Asp	Glu	Val
225					230					235					240
Ser	Ile	Lys	Glu	Ala	Ala	Glu	Ala	Val	Val	Glu	Ala	Met	Asp	Phe	His
			245							250				255	
Gly	Glu	Val	Thr	Phe	Asp	Thr	Thr	Lys	Ser	Asp	Gly	Gln	Phe	Lys	Lys
			260					265					270		
Thr	Ala	Ser	Asn	Ser	Lys	Leu	Arg	Thr	Tyr	Leu	Pro	Asp	Phe	Arg	Phe
		275					280					285			
Thr	Pro	Phe	Lys	Gln	Ala	Val	Lys	Glu	Thr	Cys	Ala	Trp	Phe	Thr	Asp

290 295 300
Asn Tyr Glu Trp Gln Ala Arg Lys
305 310